

# **TM 3-4410-201-20P**

**DEPARTMENT OF THE ARMY TECHNICAL MANUAL**

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**ORGANIZATIONAL MAINTENANCE  
REPAIR PARTS AND SPECIAL TOOL LISTS**

**HEATER, WATER  
LIQUID FUEL, SKID-MOUNTED, 600 GPH, M2  
FSN 4410-542-5656**

This copy is a reprint which includes current  
pages from Change 1.

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**MARCH 1969**



CHANGE }  
No. 1 }

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D. C., 13 January 1970

**Organizational Maintenance Repair Parts and Special Tools Lists  
HEATER, WATER, LIQUID FUEL, SKID-MOUNTED, 600 GPH, M2  
FSN 4410-542-5656**

TM 3-4410-201-20P, 7 March 1969, is changed as follows:

*Page 1*

**SECTION III**

Group 900. Tools — Delete

**SECTION IV**

Following word "EQUIPMENT" — Add —

Not applicable.

Delete "ILLUSTRATIONS" and page "13"

*Page 3, Paragraph 1, Line 1*

Delete the words "and special tools"

Paragraph 2c is superseded as follows:

c. *Special Tools, Test and Support Equipment, Section IV.* Not applicable.

*Page 7*

GROUP 900 — TOOLS — Delete entire group.

*Page 11, Figure No. 11, Item No. 14*

Column (2) FSN is changed from 5310-271-4645 to 5310-934-9759.

Column (3) Line 2, correct to read: MS35649-284 (96906).

*Page 12*

Group 900 — Tools — Delete entire group.

*Page 13, Title only*

Delete "SECTION IV SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT"

*Page 23, figure 13.* Tools — Delete entirely

*Page 24, Add:*

**SECTION IV**

**SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT** — Not applicable.

*Page 25, SECTION V FEDERAL STOCK NUMBER INDEX*

Delete: 5120-223-7396

5120-278-1283

5120-278-1283

Change: 5310-271-4645 to 5310-934-9759

*Page 25, SECTION V REFERENCE NUMBER-CROSS-REFERENCE*

Delete: GGG-P-00471

GGG-S-121

GGG-W-631

Change: MS35649-84 to MS35649-284

31300 Figure No. 9, Item No. "2" to Item

No. "3"

32104 Figure No. 9, Item No. "3" to Item

No. "2"

By Order of the Secretary of the Army:

Official:

**KENNETH G. WICKHAM,**  
*Major General, United States Army,*  
*The Adjutant General*

**W. C. WESTMORELAND,**  
*General, United States Army,*  
*Chief of Staff.*

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Div (3)  
USAMA (10)  
Svc College (10)  
Br Svc Sch (10) except  
    USACMLS (50)  
Gen Deps (5)  
Deps (5)  
Army Deps (5)  
POE (1)  
Instl (2)  
USATTC (1)  
MOTBA (1)

NG: State AG (3)

USAR: None.

For explanation of abbreviations used, see AR 310-50.

MOTBY (1)  
MOTKI (1)  
MOTSU (1)  
EAMTMTS (1)  
WAMTMTS (1)  
USAAPSA (5)  
Arsenals (3) except  
    Edgewood (50)  
PG (5)  
Ft Knox FLDMS (10)  
Units org under fol TOE:  
    3-7 (3)  
    3-147 (3)  
    3-217 (3)  
    3-500 (AA-AC) (3)  
    9-2 (5)  
    9-17 (1)  
    11-216 (1)  
    11-500 (1)  
    17-52 (1)  
    29-11 (3)  
    29-21 (3)  
    29-27 (1)  
    29-37 (1)  
    29-51 (1)  
    29-57 (1)  
    29-114 (3)  
    29-124 (3)  
    29-136 (3)  
    29-137 (1)  
    29-139 (1)  
    29-216 (3)  
    29-307 (1)  
    50-456 (5)  
    50-732 (3)  
    50-747 (3)  
    50-945 (1)

TECHNICAL MANUAL

No. 3-4410-201-20P

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D. C., 7 March 1969

Organizational Maintenance Repair Parts and Special Tools Lists

for

HEATER, WATER, LIQUID FUEL, SKID-MOUNTED, 600 GPH, M2

FSN 4410-542-5656

Current as of 15 February 1969

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## Section I.

### INTRODUCTION

#### 1. Scope

This manual lists repair parts and special tools required for the performance of organizational maintenance of the M2 water heater.

#### 2. General

This repair parts and special tools list is divided into the following sections:

a. *Prescribed Load Allowance (PLA), Section II.* A composite listing of the repair parts, special tools, test and support equipment having quantitative allowances for initial stockage at the organizational level.

b. *Repair Parts, Section III.* A list of repair parts authorized for the performance of maintenance at the organizational level in figure and item number sequence.

c. *Special Tools, Test and Support Equipment, Section IV.* A list of special tools, test and support equipment authorized for the performance of maintenance at the organizational level.

d. *Federal Stock Number and Reference Number Index, Section V.* A list of Federal stock numbers in ascending numerical sequence followed by a list of reference numbers in ascending alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

#### 3. Explanation of Columns

The following provides an explanation of columns in the tabular lists in sections II, III, and IV:

a. *Source, Maintenance and Recoverability Codes (SMR), Column 1:*

(1) Source code, indicates the selection status and source for the listed item. Source codes are:

Code	Explanation
P --	Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.
P2 --	Repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.

Code	Explanation
P9 --	Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring and diagnostic equipment, which are stocked and supplied by the Army COMSEC logistic system, and which are not subject to the provisions of AR 380-41.
P10 --	Assigned to items which are NSA design controlled: special tools, test, measuring and diagnostic equipment for COMSEC support, which are accountable under the provisions of AR 380-41, and which are stocked and supplied by the Army COMSEC logistic system.
M --	Repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
A --	Assemblies which are not procured or stocked as such but are made up of two or more units, each of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance categories.
X --	Parts and assemblies which are not procured or stocked; the mortality of which normally is below that of the applicable end item; and the failure of which would result in retirement of the end item from the supply system.
X1 --	Repair parts which are not procured or stocked, the requirement for which will be supplied by use of next higher assembly or component.
X2 --	Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned through normal supply channels.
G --	Major assemblies that are procured with PEMA funds for initial issue only to be used as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

(2) Maintenance code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are:

Code	Explanation
C --	Crew or operator maintenance
O --	Organizational maintenance

(3) Recoverability code, indicates whether unserviceable items should be returned for re-

covery or salvage. Items not coded are expendable. Recoverability codes are—

Code	Explanation
R --	Repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.
S --	Repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis. However, when these items are determined to be uneconomically repairable by a GSU, they will be evacuated to a depot for evaluation and analysis before final disposition.
T --	High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
U --	Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings or castings.

b. *Federal Stock Number, Column 2.* This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. *Description, Column 3.* This column indicates the Federal item name and any additional description of the item required. The abbreviation "w/e", when used as a part of the nomenclature, indicates the Federal stock number includes all armament, equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses. Repair parts quantities included in the kits, sets, and assemblies are shown in front of the repair part name. Material required for manufacture or fabrication is identified.

d. *Unit of Measure (U/M), Column 4.* A 2 character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.

e. *Quantity Incorporated in Unit, Column 5.* This column indicates the quantity of the item used in the assembly group. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, etc.).

f. *15-Day Organizational Maintenance Allowance, Column 3 of Section II and Column 6 of Section III and IV.*

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the

total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the allowance columns. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipment supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the density column applicable to the number of items supported to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to: Commanding Officer, Edgewood Arsenal, ATTN: SMUEA-TSE-TPL, Edgewood Arsenal, Maryland 21010 for exception or revision to the allowance list. Revisions to the range of items authorized will be made by Edgewood Arsenal based upon engineering experience, demand data, or TAERS information.

g. *Illustration, Column 7.* This column is divided as follows:

(1) *Figure number, column 7a.* Indicates the figure number of the illustration in which the item is shown.

(2) *Item number, column 7b.* Indicates the callout number used to reference the item in the illustration.

#### 4. Special Information

a. Parts which require manufacture or assembly at a category higher than that authorized for installation will indicate in the source column the higher category.



b. Action change codes indicated in the left hand margin of the listing page denote the following:

- N—Indicates an added item not included in previous publications
- C—Indicates a change in data
- F—Indicates a change in FSN only.

c. The following publications pertain to the M2 water heater:

TM 3-4230- 209-12	Operator and Organiza- tional Maintenance Manual
TM 3-4230- 209-12	Lubrication Order
TM 3-4410- 201-12	Operator and Organiza- tional Maintenance Manual

## 5. How to Locate Repair Parts

a. When Federal stock number or reference number is unknown:

(1) *First*. Using the table of contents, determine the assembly group i.e., cabinet, control box, skid assembly, etc., within which the repair part belongs. This is necessary since illustrations are prepared for assembly groups and listings are divided into the same groups.

(2) *Second*. Find the illustration covering the assembly group or assembly sub group to which the repair part belongs.

(3) *Third*. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth*. Using the Repair Parts Listing, find the assembly group or assembly sub-group to which the repair part belongs and locate the illustration figure and item number noted on the illustration.

b. When Federal stock number or reference number is known:

(1) *First*. Using the index of Federal stock numbers and reference numbers find the perti-

nent Federal stock number or reference number. This index is in ascending FSN sequence followed by a list of reference numbers in ascending alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second*. Using the Repair Part Listing, find the assembly group or assembly sub group of the repair part and the illustration figure number and item number referenced in the Index of Federal Stock Numbers and Reference Numbers.

## 6. Abbreviation

Abbreviation	Explanation
cad	cadmium
CRES	Corrosion Resistant Steel
DPDT	Double-pole, Double-throw
GPH	gallon per hour
o/a	overall
pltd	plated
SPST	Single-pole, Single-throw
UNC	Unified Coarse Thread
UNF	Unified Fine Thread
w	with
w/o	without

## 7. Federal Supply Codes for Manufacturers

Code	Manufacturer
11583	Champion Spark Plug Co. Toledo, Ohio
13800	Commercial Filters Corp. Lebanon, Indiana
80691	Ever Tite Coupling Co., Inc. New York, N. Y.
81348	Federal Specification
81349	Military Specification
81361	U.S. Army, Edgewood Arsenal Edgewood Arsenal, Md. 21010
96906	Military Standards

## 8. Reporting of Equipment Publication Improvements

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to: Commanding Officer, Edgewood Arsenal, ATTN: SMUEA-TSE-TP, Edgewood Arsenal, Md. 21010.



## SECTION II

### PRESCRIBED LOAD ALLOWANCE

(1) Federal stock number	(2) Description  Usable on Code	(3) 15-day organizational maintenance allowance			
		(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100
	GROUP 100—CABINET				
5305-988-1724	Screw, machine -----	--	--	2	2
5310-550-1130	Washer, lock -----	--	--	2	2
5310-576-5752	Washer, lock -----	--	--	--	2
5310-934-9751	Nut, plain, hexagon -----	--	--	--	2
5340-598-0113	Clamp, loop -----	--	--	--	2
	GROUP 200—CONTROL PANEL AND SKID				
5340-903-8585	Cap, protective, dust and moisture seal -----	2	2	3	6
	GROUP 300—CONTROL BOX				
5305-773-2708	Setscrew -----	--	--	--	2
	GROUP 400—ELECTRICAL				
6145-548-1076	Cable, power, electrical -----	--	--	2	2
	GROUP 500—FUEL HOSE				
5970-644-2636	Insulation tape, electrical -----	2	2	3	6
	GROUP 600—SKID ASSEMBLY				
4730-908-5900	Cap, protective, coupling -----	--	--	--	2
5340-903-4764	Cap, protective, dust and moisture seal -----	--	--	--	2
	GROUP 601—FILTER				
4330-285-5389	Filter element, fluid pressure -----	2	3	6	11
5330-285-3825	Gasket -----	2	3	6	11
5330-352-5542	Gasket, bowl -----	2	3	6	11
	GROUP 701—COMBUSTION ASSEMBLY				
2920-580-3435	Ignition plug, gas turbine engine -----	2	3	6	11
	GROUP 702—BOILER ASSEMBLY				
5930-902-5066	Switch, thermostatic -----	2	2	4	8
	GROUP 704—NOZZLE HOLDER ASSEMBLY				
4530-909-5908	Nozzle, oil burner, pressure atomizing -----	2	2	4	8
	GROUP 900—TOOLS				
5120-223-7396	Pliers, slip joint -----	2	2	3	6
5120-240-5328	Wrench, open end, adjustable -----	2	2	3	6
5120-278-1283	Screwdriver, flat tip -----	2	2	3	6



# SECTION III REPAIR PARTS LIST

TM 3-4410-201-20P

(1) SMR code	(2) Federal stock number	(3) Description  Reference Number & Mfr. Code	(4) Unit of meas	(5) Qty inc in unit	(6) 15-day organizational maintenance allow				(7) Illustration	
					(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Figure No.	(b) Item No.
		GROUP 100—CABINET								
C-X2-O--	-----	PANEL, SIDE E5-59-365 (81361) -----	ea	1	--	--	--	--	2	1
C-P-O --	5305-990-6444	SCREW, MACHINE steel, pan hd, No. 10-32UNF-2A 3/8 in. lg MS 35207-261 (96906).	ea	3	*	*	*	*	2	2
C-P-O --	5305-988-1723	SCREW, MACHINE steel, pan hd, cross recessed, 1/4 in. -20 UNC-2 A, 1/2 in. lg MS 35206-279 (96906).	ea	2	*	*	*	*	2	3
C-X2-O--	-----	COVER, TOP, CABINET E5-59-323 (81361) -----	ea	1	--	--	--	--	2	4
C-X2-O--	-----	PANEL, END D5-59-273 (81361) -----	ea	1	--	--	--	--	2	5
C-P-O --	5310-761-6882	NUT, PLAIN, HEXAGON steel, cad pltd, 1/4 in. -20 UNC-2B	ea	4	*	*	*	*	2	6
C-P-O --	5310-576-5752	MS 51967-2 (96906). WASHER, LOCK steel, flat internal tooth, No. 10 nom size	ea	23	*	*	*	2	2	7
C-P-O --	5310-934-9751	MS 35333-39 (96906). NUT, PLAIN, HEXAGON steel, cad pltd, No. 10-32NF-2B	ea	7	*	*	*	2	2	8
C-P-O --	5310-550-1130	MS 35650-302 (96906). WASHER, LOCK steel, cad pltd, 1/4 in. nom bolt size	ea	8	*	*	2	2	2	9
N-P-O --	5340-598-0113	MS 35333-40 (96906) ----- CLAMP, LOOP cushioned, joggled	ea	3	*	*	*	2	2	10
C-X2-O--	-----	MS 9024-07 (96906) ----- SHEET, END, UPPER 05-59-327 (81361) -----	ea	1	--	--	--	--	3	1
C-X2-O--	-----	PANEL, SIDE E5-59-365 (81361) -----	ea	1	REF	REF	REF	REF	3	2
C-X2-O--	-----	PANEL, FRONT D5-59-364 (81361) -----	ea	1	--	--	--	--	3	3
C-P-O --	5310-761-6882	NUT, PLAIN, HEXAGON steel, cad pltd, 1/4 in. -20UNC-2B	ea	8	REF	REF	REF	REF	3	4
C-P-O --	5310-550-1130	MS 51967-2 (96906). WASHER, LOCK steel, cad pltd, 1/4 in. nom bolt size	ea	8	REF	REF	REF	REF	3	5
C-P-O --	5305-988-1724	MS 35333-40 (96906) ----- SCREW, MACHINE steel, pan hd, cross recessed, cad pltd, 1/4 in. 20UNC, 5/8 in. lg MS 35206-280 (96906).	ea	8	REF	REF	REF	REF	3	6

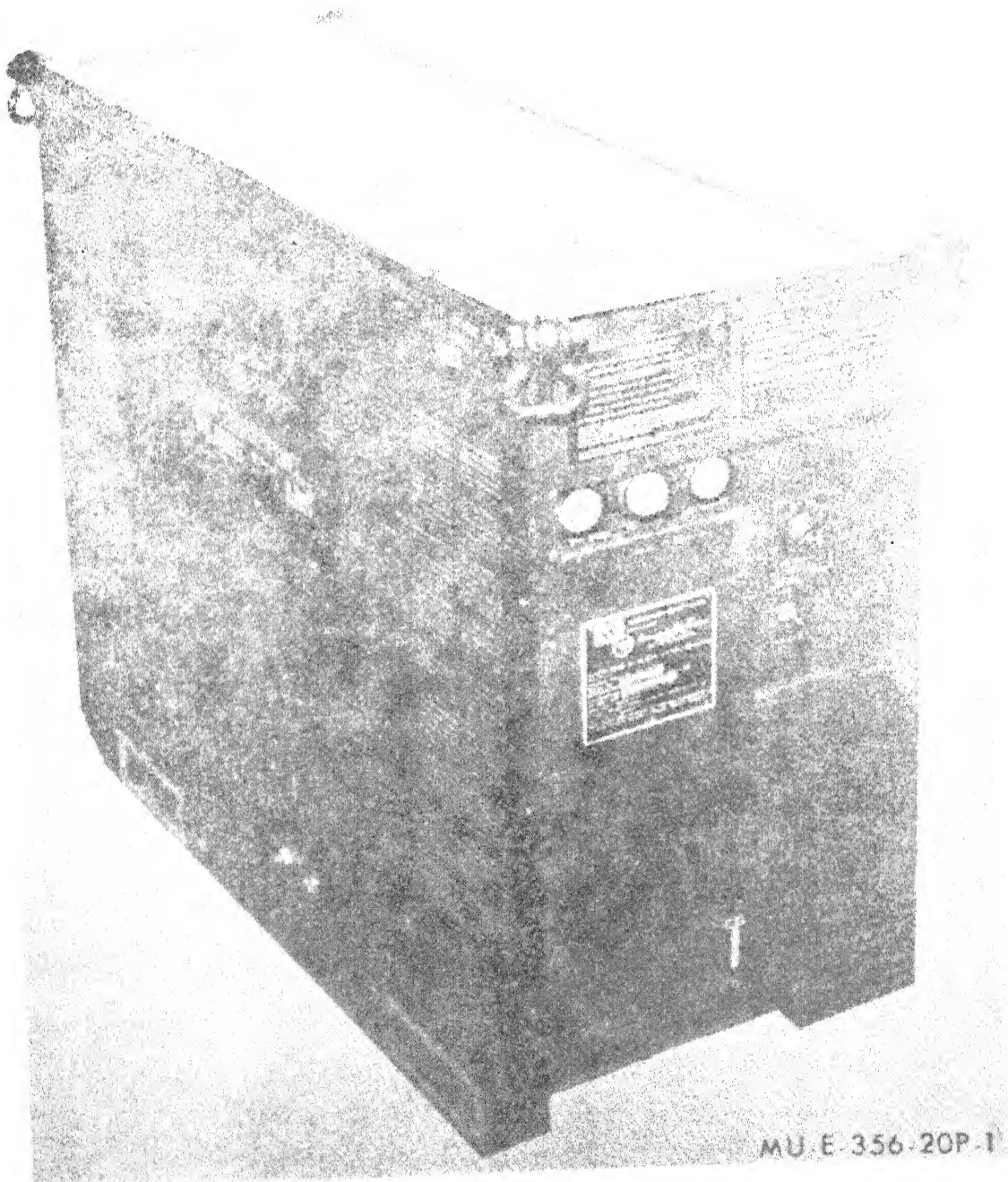
(1)  SMR code	(2)  Federal stock number	(3)  Description  Reference Number & Mfr. Code      Usable on Code	(4)  Unit of meas	(5)  Qty inc in unit	(6) 15-day organizational maintenance slw				(7) Illustration	
					(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Figure No.	(b) Item No.
C-P-O --	5305-988-1724	Group 200—CONTROL PANEL AND SKID SCREW, MACHINE steel, pan hd, cross recessed, cad pltd, 1/4 in. 20UNC, 5/8 in. lg MS 35206-280 (96906). WASHER, LOCK steel, cad pltd, 1/4 in. nom bolt size MS 35333-40 (96906). CAP, PROTECTIVE, DUST AND MOISTURE SEAL brass, friction type, 1 in. od tube 1 in. Dust Cap (80691). NUT, PLAIN, HEXAGON steel, cad pltd, 1/4 in. - 20UNC-2B MS 51967-2 (96906).	ea	8	REF	REF	REF	REF	4	1
C-P-O --	5310-550-1130		ea	8	REF	REF	REF	REF	4	2
C-P-O --	5340-903-8585		ea	1	2	2	3	6	4	3
C-P-O --	5310-761-6882		ea	8	REF	REF	REF	REF	4	4
C-P-O --	5945-729-1106	Group 300—CONTROL BOX RELAY, THERMAL 2 terminals for enclosure, 2 heater terminals, 2 second operating time lg, 1-1/4 in. dia C5-59-354 (81361). RELAY, THERMAL, SPST, AC, DC, 2 heater element terminals, 2 contact terminals 120 second operating time C5-59-335 (81361). INSULATION BLANKET, THERMAL B5-59-412 (81361) MFRD FROM: INSULATION BLANKET, THERMAL, 1 layer fiberglass, 1 in. thk 5640-905-3631. SETSCREW cup point, 1/4 in. -28UNF-3A, 3/16 in. lg MS 18064-9 (36906)	ea	1	*	*	*	*	5	1
C-P-O --	5945-900-6282		ea	1	*	*	*	*	5	2
C-M-O --	-----		--	1	--	--	--	--	5	3
C-P-O --	5305-773-2708		ea	1	*	*	*	*	5	4
C-P-O-R-	6150-908-0782	Group 400—ELECTRICAL CABLE ASSEMBLY, POWER C5-59-360 (81361)	ea	1	*	*	*	*	6	
C-P-O --	6145-548-1076	CABLE, POWER, ELECTRICAL 2 conductors, No. 10 AWG, 25 ft lg C5-59-360-1 (81361)	ea	1	*	*	2	2	6	1
N-P-O --	5970-644-2636	Group 500—FUEL HOSE INSULATION TAPE, ELECTRICAL plastic, black, 1/2 in. w, 108 ft lg, 0.007 in. thk MIL-I-7798 (81349). HOSE ASSEMBLY C5-59-382 (81361)	rl	v	2	2	3	6	7	1
N-P-O --	4720-022-8380		ea	1	*	*	*	*	7	2

(1) SMR code	(2) Federal stock number	(3) Description Reference Number & Mfr. Code	(4) Unit of meas	(5) Qty inc in unit	(6) 15-day organizational maintenance allow				(7) Illustration	
					(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Figure No.	(b) Item No.
C-P-O --	4730-908-5900	Group 600—SKID ASSEMBLY CAP, PROTECTIVE, COUPLING 1/4 in. nom tube od D150-1-15-2 (81361)	ea	1	*	*	*	2	8	1
C-P-O --	5340-903-4764	CAP, PROTECTIVE, DUST AND MOISTURE SEAL aluminum, friction type, 3/8 in. od tube D150-1-13-2 (81361).	ea	1	*	*	*	2	8	2
C-P-O --	5310-012-0622	NUT, PLAIN, HEXAGON steel, cad or zinc pltd, No. 8-32UNC-2B	ea	2	*	*	*	*	8	3
C-P-O --	5310-559-0070	MS 35649-282 (96906). WASHER, LOCK steel, No. 8 screw size	ea	2	*	*	*	*	8	4
C-P-O --	*5305-984-6191	MS 35333-38 (96906) ----- SCREW, MACHINE steel, pan hd, No. 8-32UNC-2A, 3/8 in. lg MS 35206-243 (96906).	ea	2	*	*	*	*	8	5
C-X2-O --	-----	Group 601—FILTER COVERNUT BAL-4-1817 Covernut (13800)	---	1	---	---	---	---	9	1
C-P-O --	5330-285-3825	GASKET fiber, 23/32 in. dia, 1/16 in. thk 32104 (13800)	ea	1	2	3	6	11	9	2
C-P-O --	5330-352-5542	GASKET, BOWL 31300 (13800)	ea	1	2	3	6	11	9	3
C-P-O --	4330-903-5389	FILTER ELEMENT, FLUID PRESSURE nonreusable element, 2 1/2 in. od, 1 in. id E94RT (13800).	ea	1	2	3	6	11	9	4
C-P-O --	2920-580-3435	Group 701—COMBUSTION ASSEMBLY IGNITION PLUG, GAS TURBINE ENGINE straight plug type, 2.937 in. lg o/a 806X2 (11583).	ea	1	2	3	6	11	10	1
C-P-O --	5305-889-3002	Group 702—BOILER ASSEMBLY SCREW, MACHINE steel, cad pltd, cross recessed, No. 8-32UNC-2A, 5/16 in. lg MS 35206-242 (96906).	ea	2	*	*	*	*	11	1
C-X2-O --	-----	ARRESTOR ASSEMBLY, SPARK C5-59-294 (81361)	ea	1	---	---	---	---	11	2
C-P-O --	5310-543-2739	WASHER, LOCK flat, steel, No. 8 screw size MS 35333-72 (96906)	ea	2	*	*	*	*	11	3
C-P-O --	5310-271-4645	NUT, PLAIN, HEXAGON cres, No. 8-32UNC MS 35649-84 (96906)	ea	2	*	*	*	*	11	4
C-P-O --	5930-902-5066	SWITCH, THERMOSTATIC SPST, contacts open on temp increase, 200 deg F to 600 deg F, bushing mtd, 3/8 in. dia B5-59-339 (81361).	ea	1	2	2	4	2	11	5

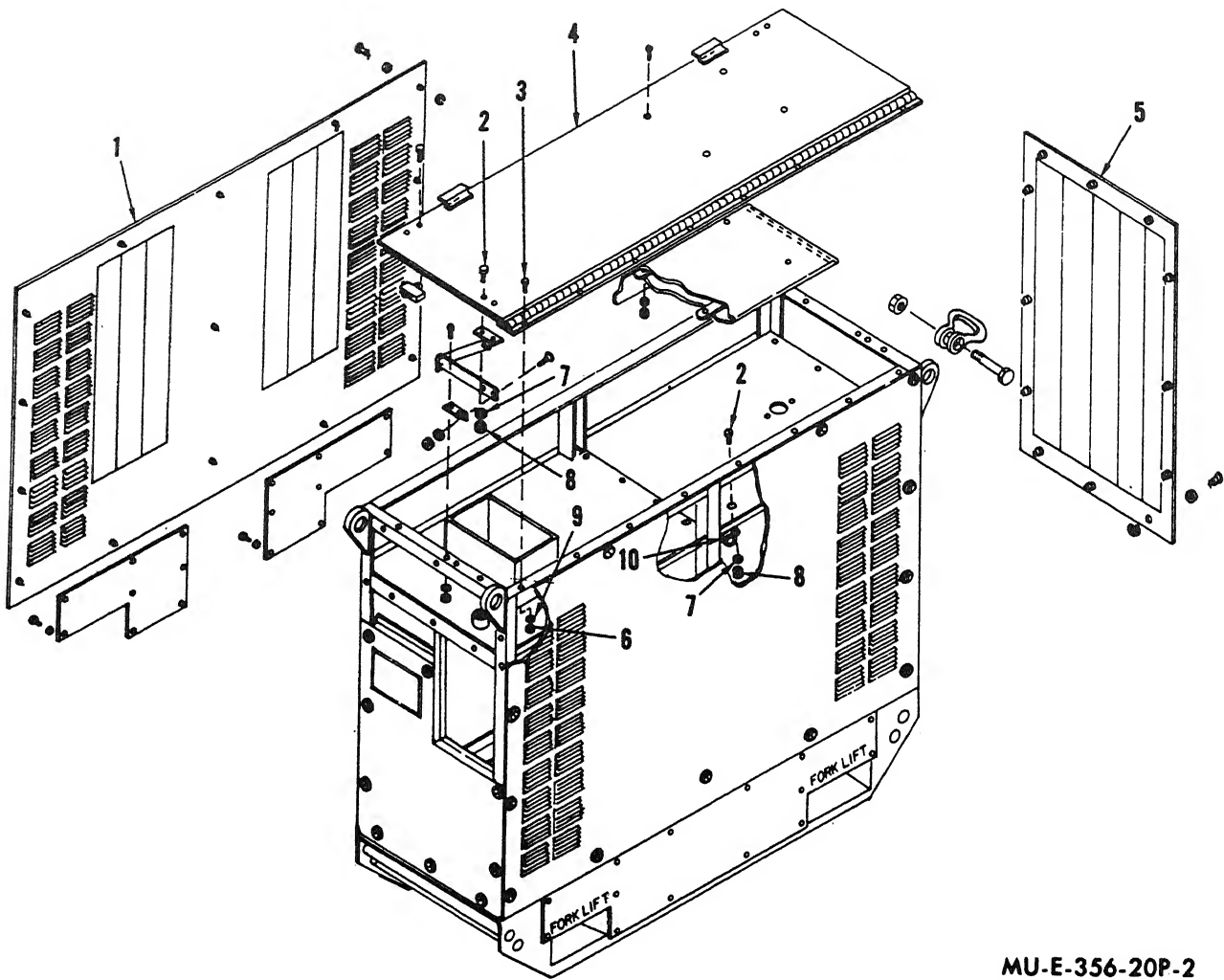
(1) SMR code	(2) Federal stock number	(3) Description  Reference Number & Mfr. Code	(4) Unit of meas	(5) Qty inc in unit	(6) 15-day organizational maintenance alw				(7) Illustration	
					(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Figure No.	(b) Item No.
C-P-O --	4530-909-5908	Group 704—NOZZLE HOLDER ASSEMBLY NOZZLE, OIL BURNER, PRESSURE ATOMIZING C5-59-376 (81361) -----	ea	1	2	2	4	2	12	1
C---O --	5120-238-7396	Group 900—TOOLS PLIERS, SLIP JOINT straight nose, combination, w/cutter, 6 in. nom size GGG-P-00471	ea	1	2	2	3	5	13	1
C---O --	5120-240-5328	WRENCH, OPEN END, ADJUSTABLE 8 in. lg GGG-W-631 (81348) -----	ea	1	2	2	3	6	13	2
C---O --	5120-278-1283	SCREWDRIVER, FLAT TIP w/wrench grip, plastic handle, flared tip, 5/16 in. w, 6 in. lg, black GGG-S-121 (81348).	ea	1	2	2	3	6	13	3



**SECTION IV**  
**SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT**  
**ILLUSTRATIONS**



*Figure 1. Heater, water, liquid fuel, M2.*



MU-E-356-20P-2

*Figure 2. Cabinet assembly.*

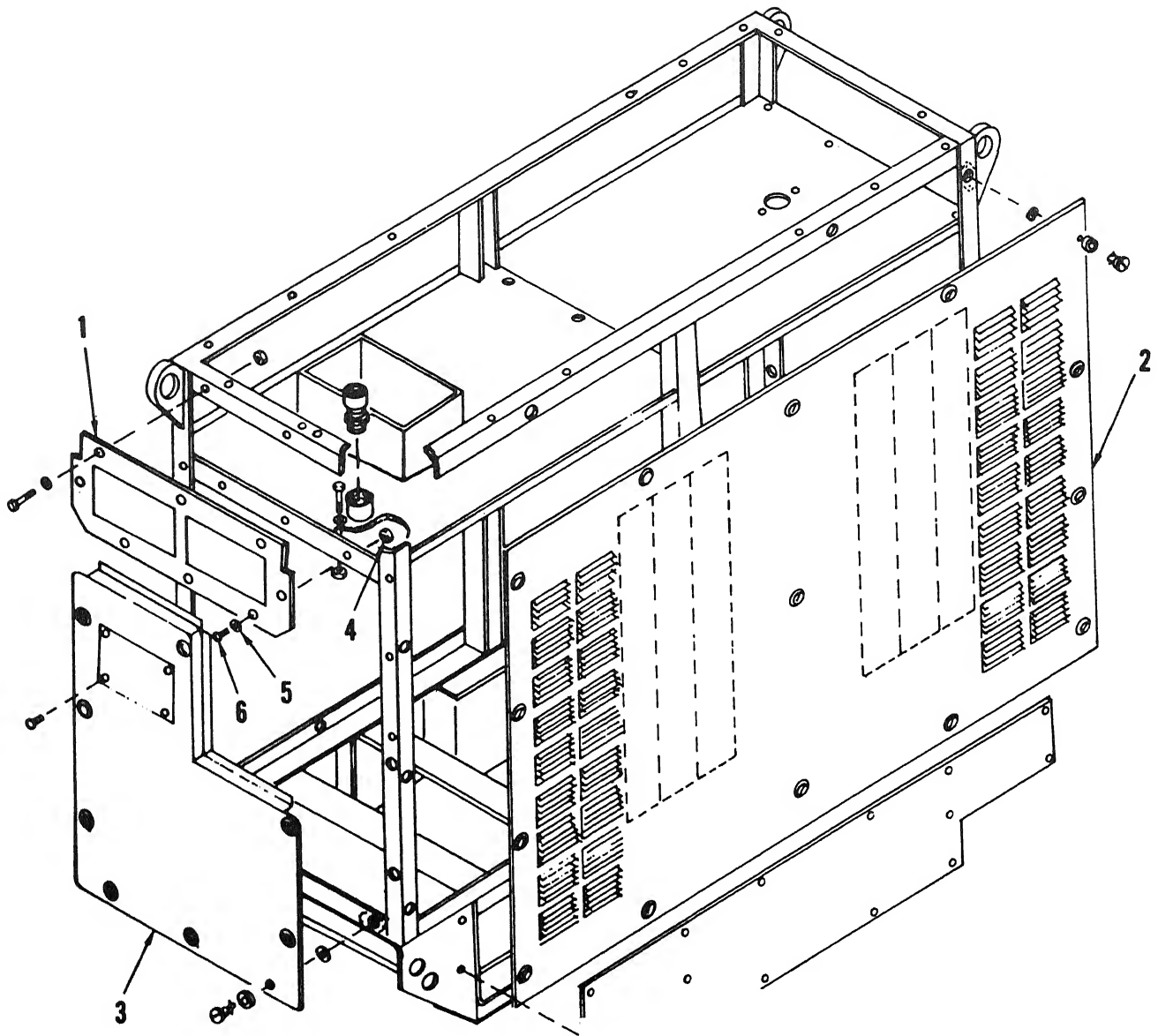
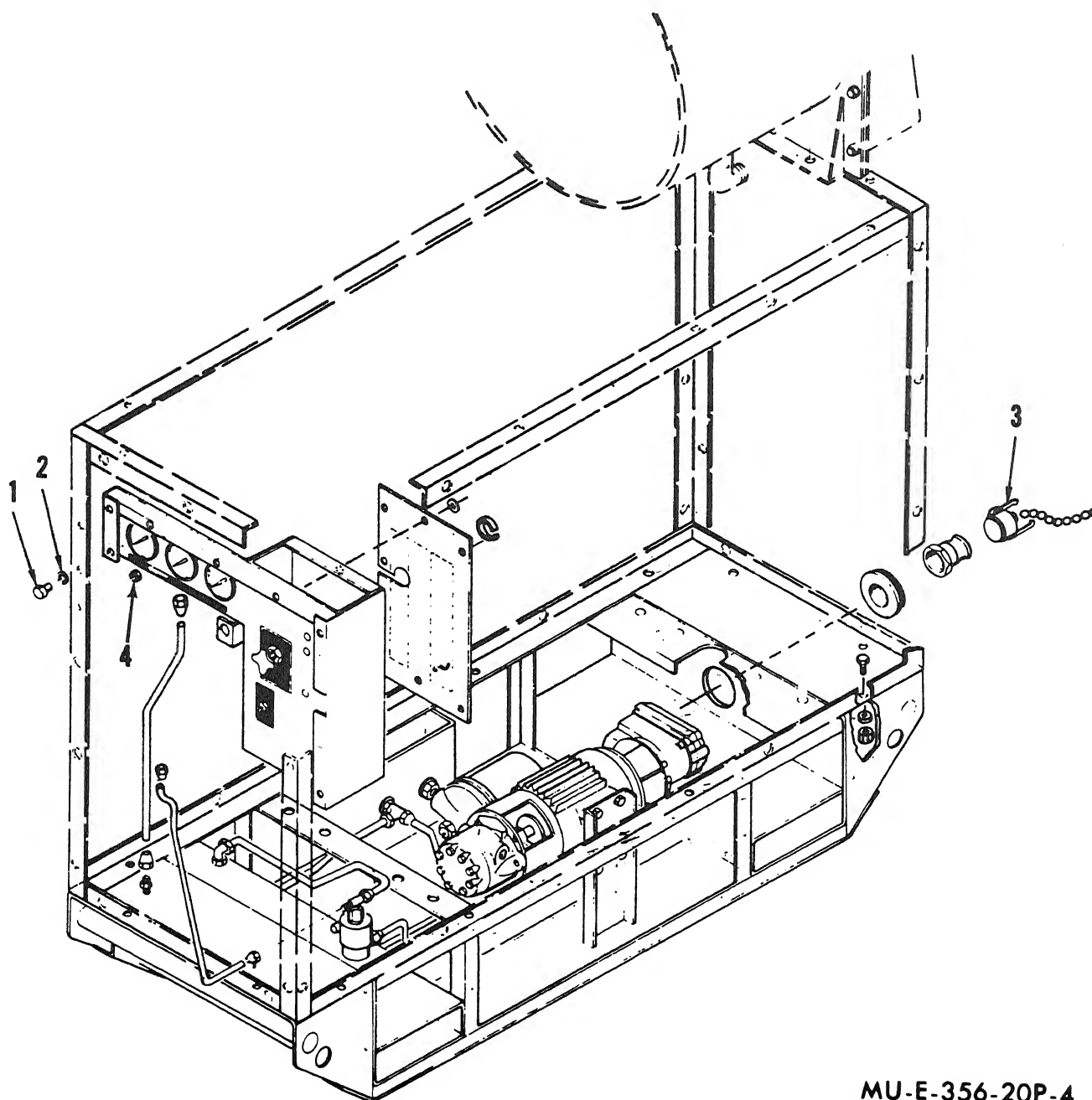
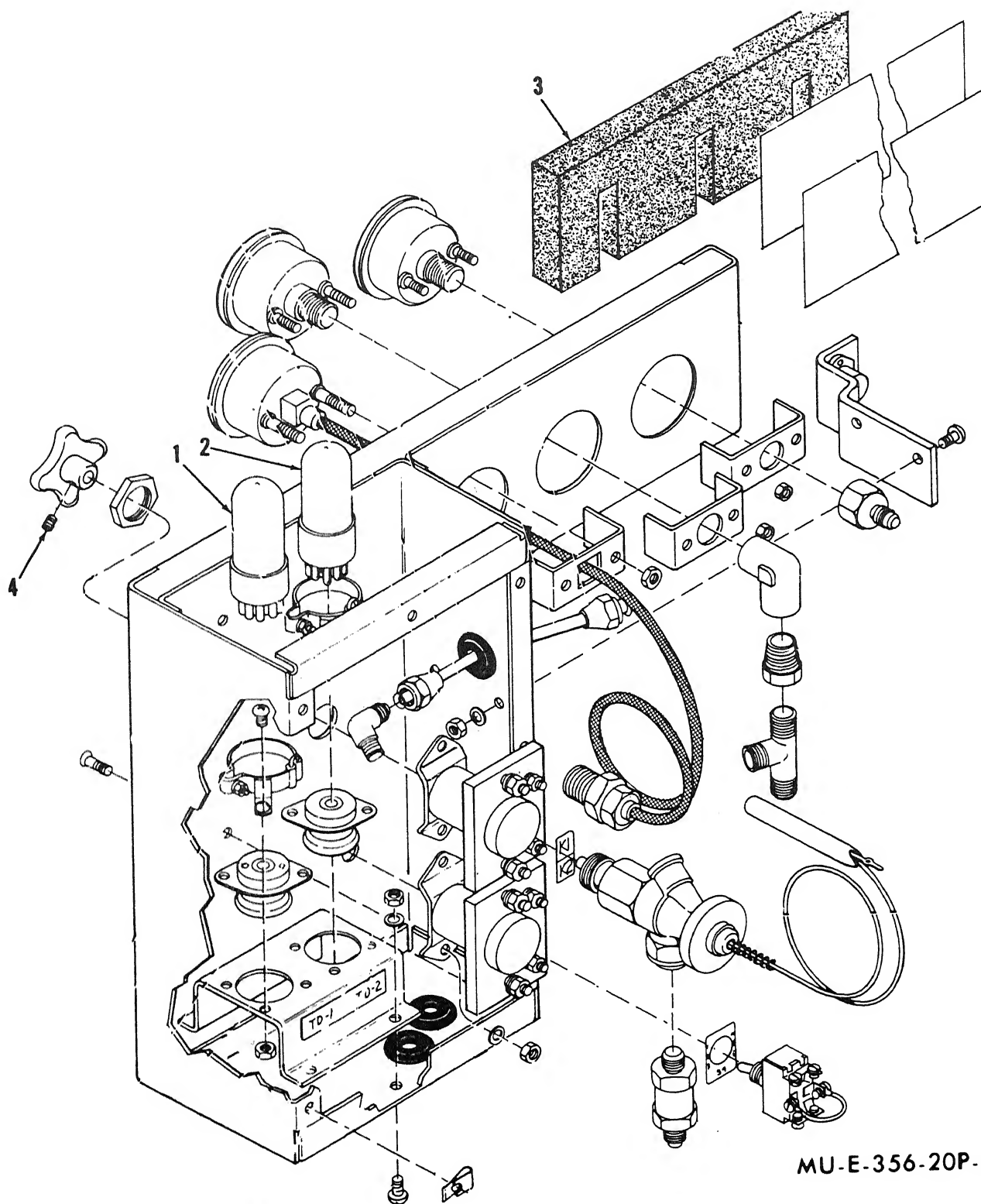


Figure 3. Cabine



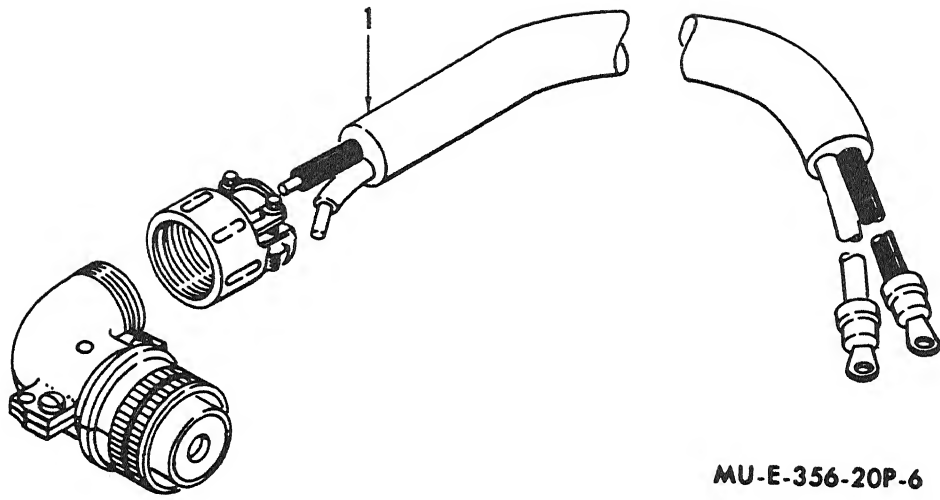
MU-E-356-20P-4

*Figure 4. Control panel and skid.*



MU-E-356-20P-5

Figure 5. Control box.



*Figure 6. Power cable.*

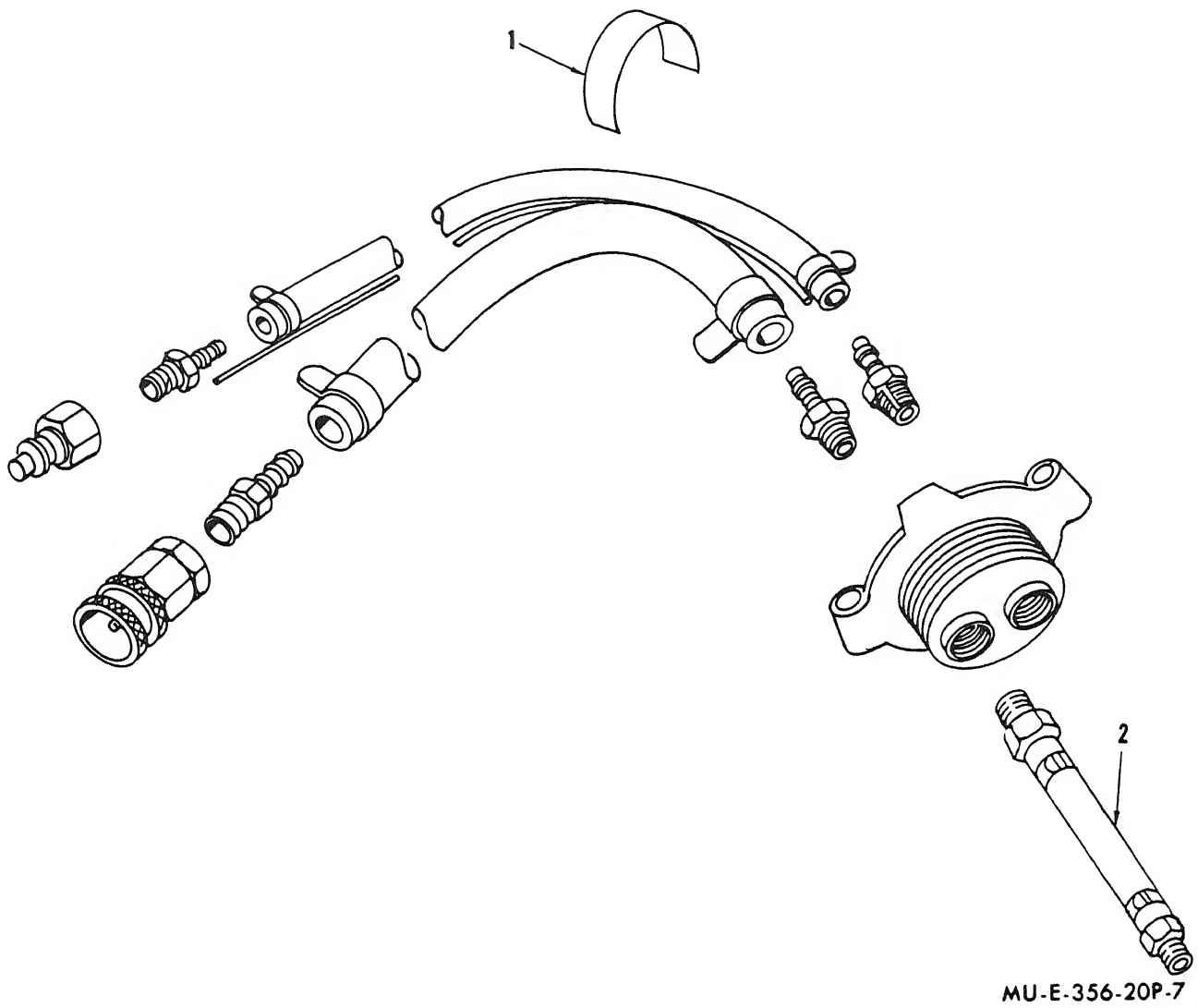
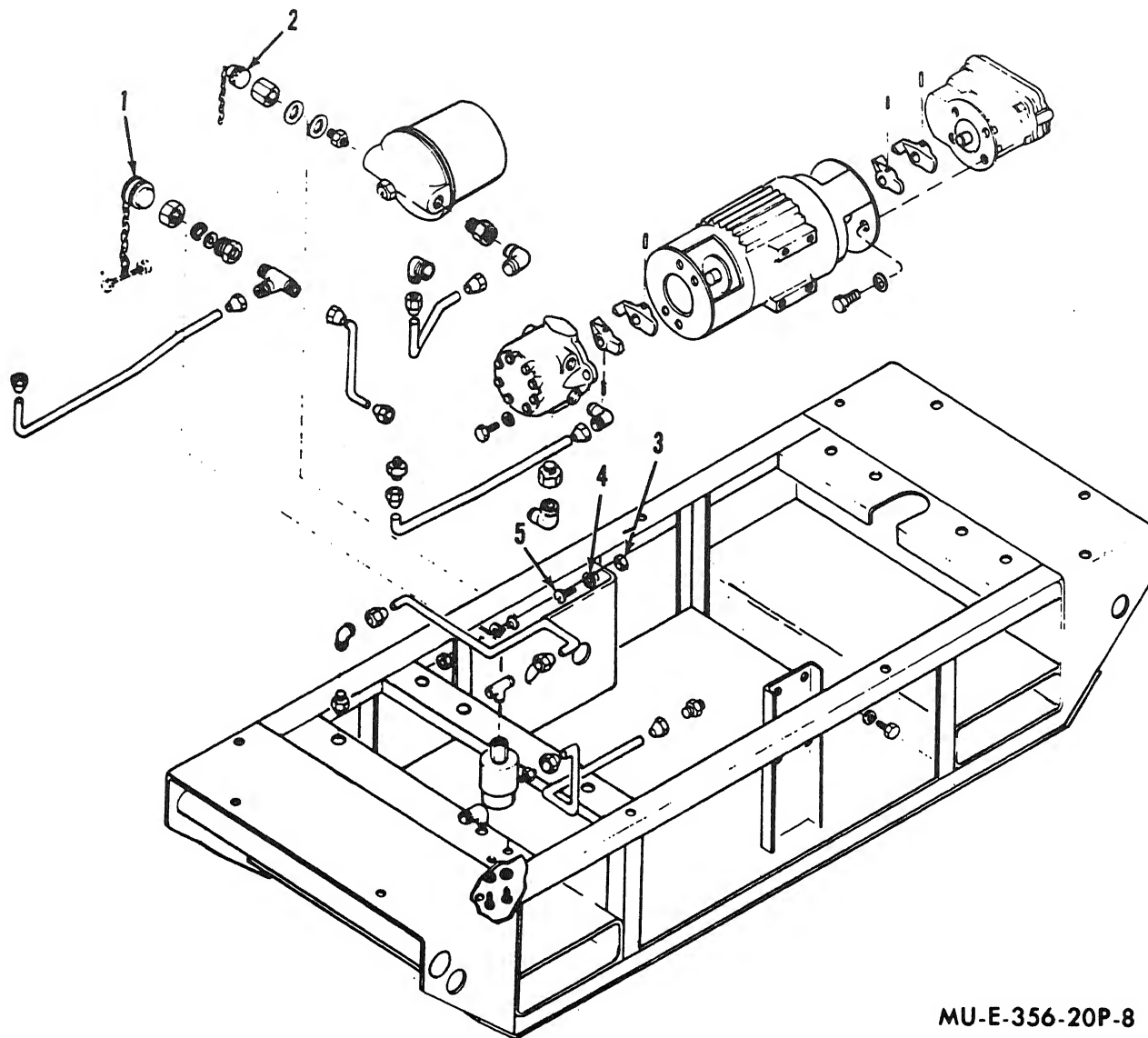


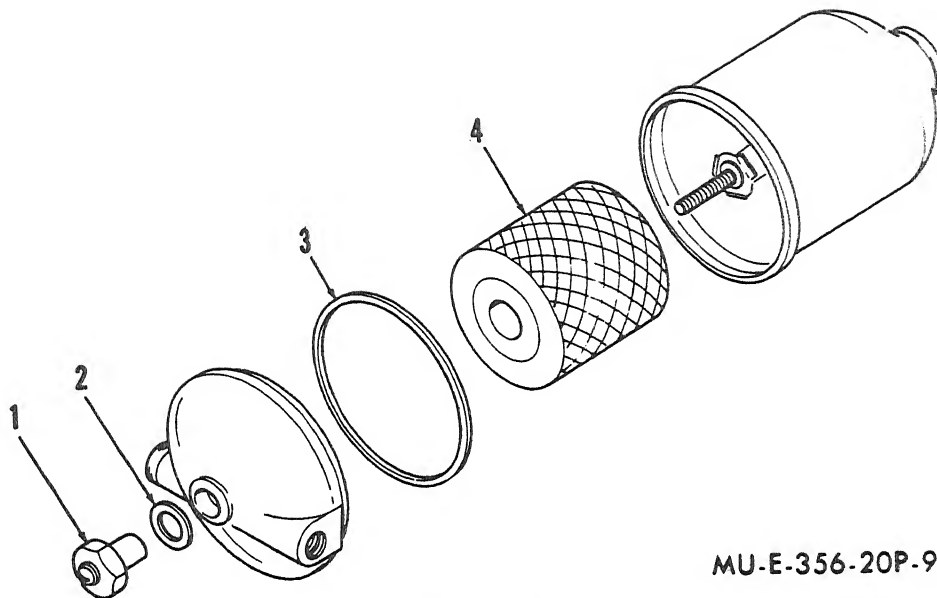
Figure 7. Fuel hose.



MU-E-356-20P-8

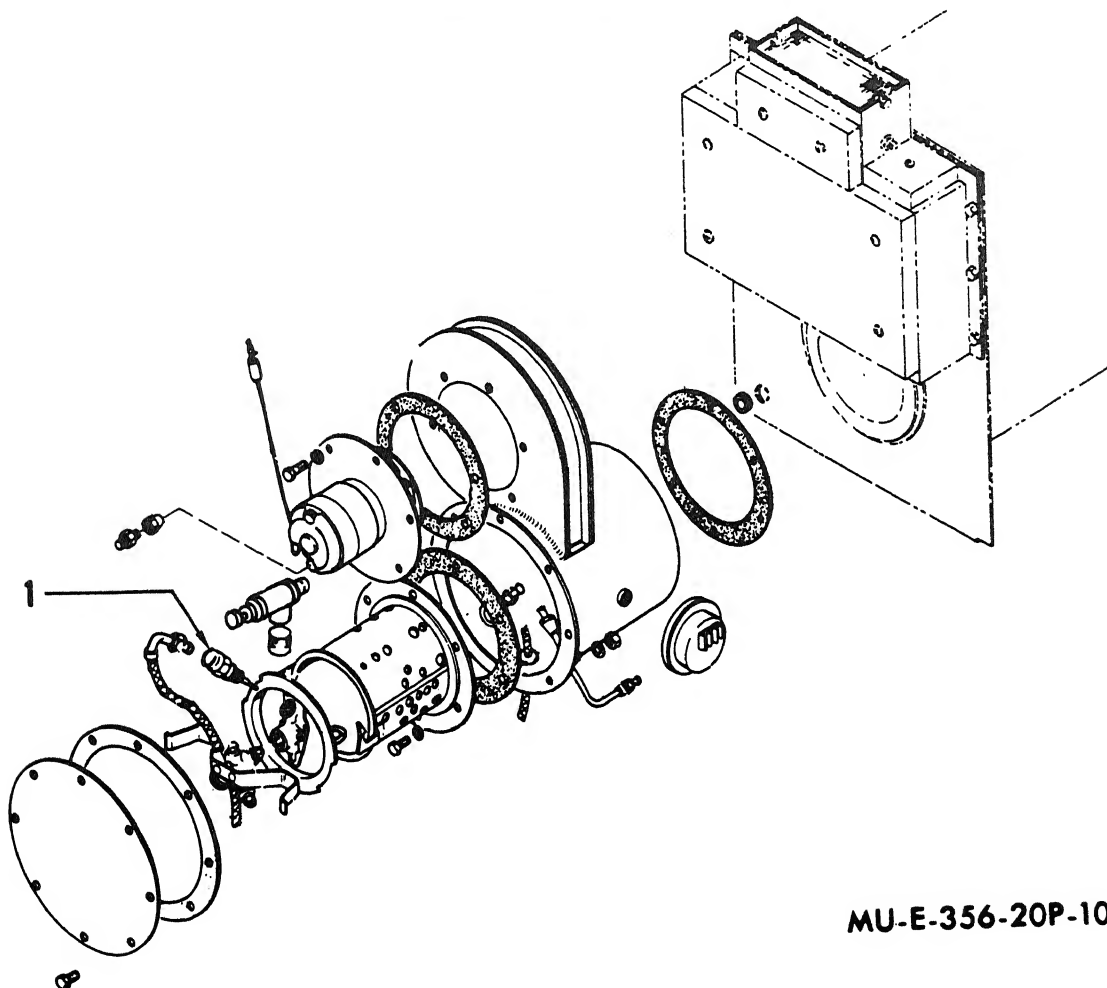
*Figure 8. Skid assembly.*





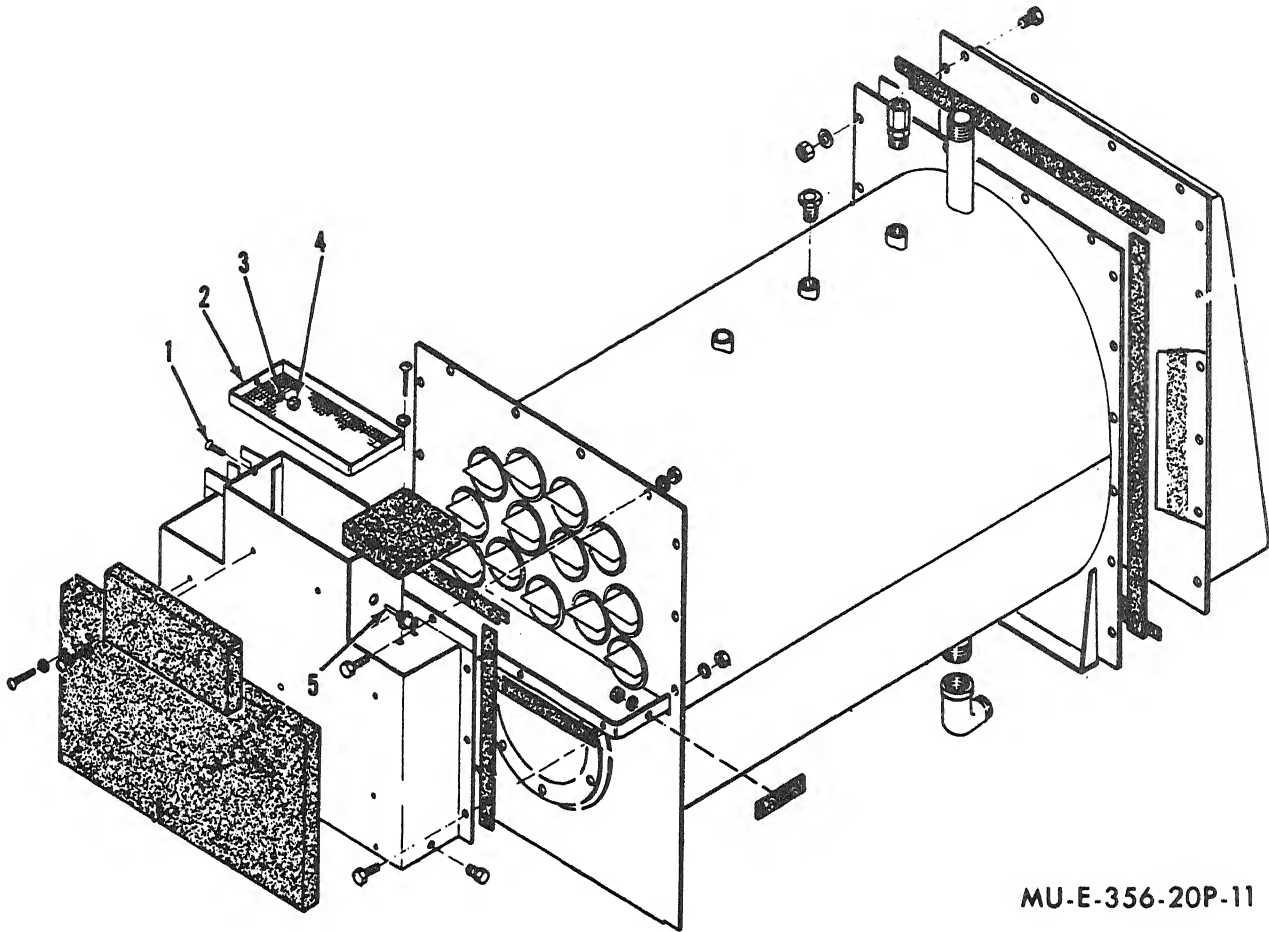
MU-E-356-20P-9

Figure 9. Filter.



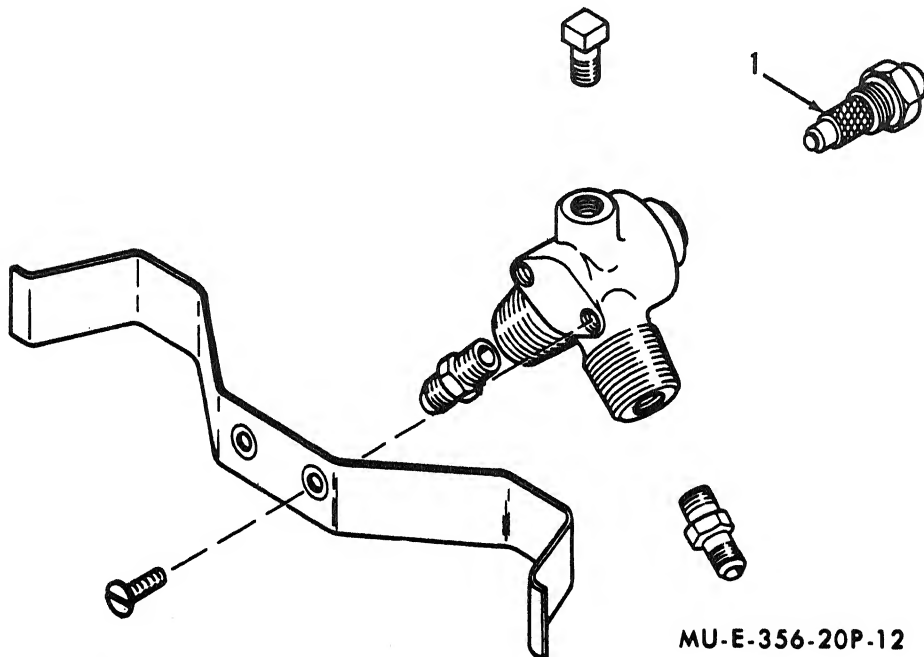
MU-E-356-20P-10

Figure 10. Combustor assembly.



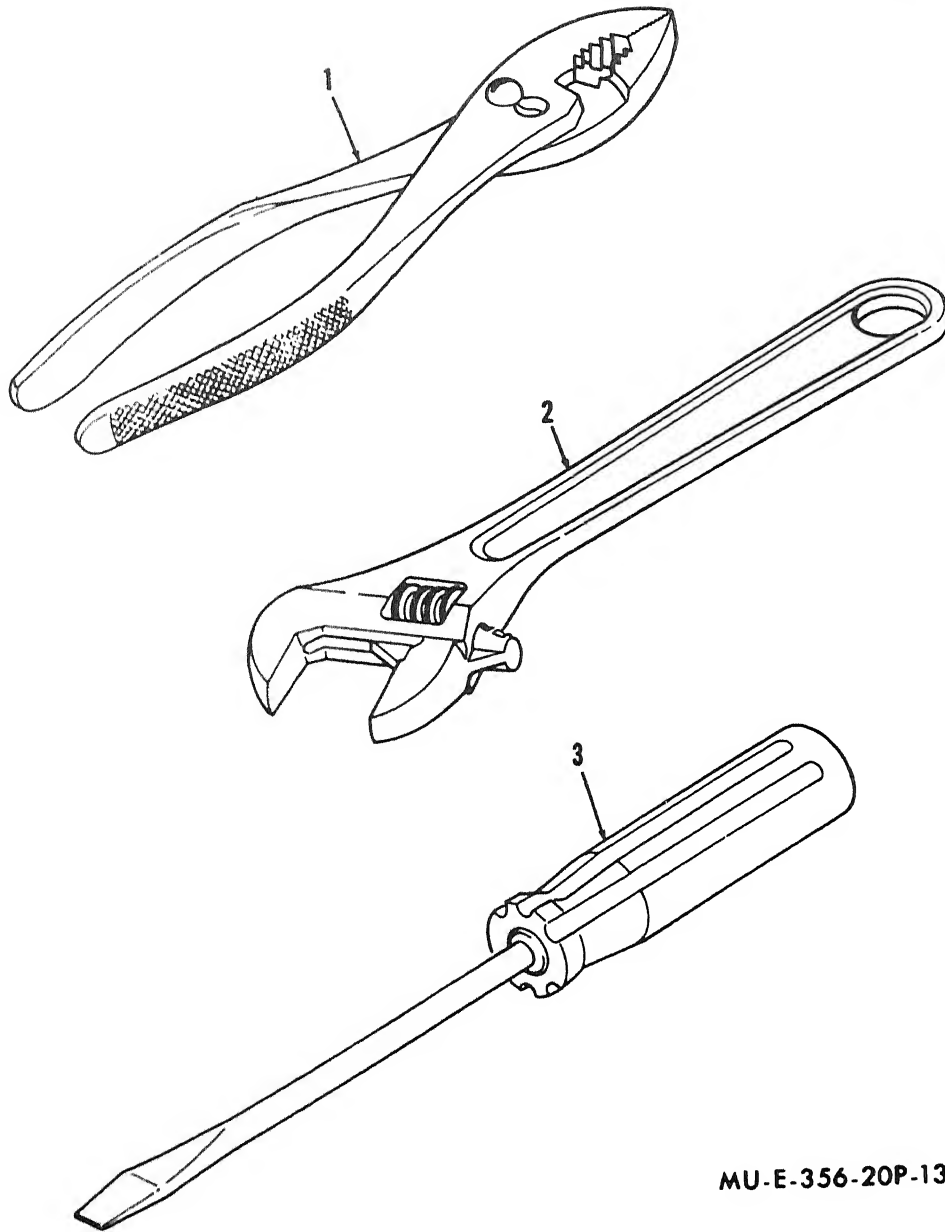
MU-E-356-20P-11

Figure 11. Boiler.



MU-E-356-20P-12

Figure 12. Nozzle holder.



MU-E-356-20P-13

*Figure 13. Tools.*



## SECTION V

# INDEX—FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

Stock No.	Figure No.	Item No.	Stock No.	Figure No.	Item No.
2920-580-3435	10	1		3	5
4330-903-5389	9	4		4	2
4410-542-5656	1	-	5310-559-0070	8	4
4530-909-5908	12	1	5310-576-5752	2	7
4720-022-8380	7	2	5310-761-6882	2	6
4730-908-5900	8	1		3	4
5120-223-7396	13	1		4	4
5120-240-5328	13	2	5310-934-9751	2	8
5120-278-1283	13	3	5330-285-3825	9	2
5305-773-2708	5	4	5330-352-5542	9	3
5305-889-3002	11	1	5340-598-0113	2	10
5305-984-6191	8	5	5340-903-4764	8	2
5305-988-1723	2	3	5340-903-8585	4	3
5305-988-1724	3	6	5640-905-3631	5	3
	4	1	5930-902-5066	11	5
5305-990-6444	2	2	5945-729-1106	5	1
5310-012-0622	8	3	5945-900-6282	5	2
5310-271-4645	11	4	5970-644-2636	7	1
5310-543-2739	11	3	6145-548-1076	6	1
5310-550-1136	2	9	6150-908-0782	6	-

Reference No.	Mfg Code	Fig No.	Item No.	Reference No.	Mfg Code	Fig No.	Item No.
BAL-4-1817	13800	9	1	MS 18064-9	96906	5	4
COVERNUT				MS 35206-242	96906	11	1
B5-59-339	81361	11	5	MS 35206-243	96906	8	5
B5-59-412	81361	5	3	MS 35206-279	96906	2	3
C5-59-294	81361	11	2	MS 35206-280	96906	3	6
C5-59-327	81361	3	1			4	1
C5-59-334	81361	5	1	MS 35207-261	96906	2	2
C5-59-335	81361	5	2	MS 35333-38	96906	8	4
C5-59-360	81361	6	-	MS 35333-39	96906	2	7
C5-59-360-1	81361	6	1	MS 35333-40	96906	2	9
C5-59-376	81361	12	1			3	5
C5-59-382	81361	7	2			4	2
D150-1-13-2	81361	8	2	MS 35333-72	96906	10	3
D150-1-15-2	81361	8	1	MS 35649-84	96906	11	4
D5-59-273	81361	2	5	MS 35649-282	96906	8	3
D5-59-364	81361	3	3	MS 35650-302	96906	2	8
E5-59-323	81361	2	4	MS 51967-2	96906	2	6
E5-59-365	81361	2	1			3	4
		3	2			4	4
E94RT	13800	9	4	MS 9024-07	96906	2	10
GGG-P-00471	81348	13	1	1 in DUSTCAP	80691	4	3
GGG-S-121	81348	13	3	31300	13800	9	2
GGG-W-631	81348	13	2	32104	13800	9	3
MIL-I-7798	81349	7	1	806X2	11583	10	1

By Order of the Secretary of the Army:

Official:

KENNETH G. WICKHAM,  
Major General, United States Army,  
The Adjutant General.

W. C. WESTMORELAND,  
General, United States Army,  
Chief of Staff.

Distribution:

Active Army:

CNGB (1)  
USAMB (2)  
USAMC (5)  
USAMUCOM (5)  
USACDC (2)  
USACDCEC (10)  
USACDCCBRA (2)  
USACDCADA (2)  
USACDCARMA (2)  
USACDCARTYA (2)  
USACDCAVNA (2)  
USACDCIA (2)  
USACDCSWA (2)  
USCONARC (10)  
ARADCOM (5)  
ARADCOM Rgn (5)  
OS Maj Comd (5)  
Armies (5)  
Corps (3)  
Div (3)  
Instl (2) except  
    USAEFCFB (4)  
USMA (10)  
Svc Colleges (10)  
Br Svc Sch (10) except  
    USACMLCS (50)  
USAARMC (2)  
USA FA Cen (2)  
USAPC (2)  
USA Msl & Muns Cen & Sch (2)  
USATTC (1)  
USAIC (2)  
Gen Dep (5)  
Dep (5)  
Army Dep (5)  
POE (1)  
MOTBA (1)

MOTBY (1)  
MOTKI (1)  
MOTSU (1)  
EAMTMTS (2)  
WAMTMTS (1)  
USAAPSA (5)  
Arsenals (3) except  
    Edgewood (50)  
PG (5)  
Ft Knox FLDMS (10)  
Units org under fol TOE:-1 ea. UNOINDC  
    3-7 (3)  
    3-147 (3)  
    3-217 (3)  
    3-500(AA-AC) (3)  
    9-2 (5)  
    9-17  
    11-216  
    11-500  
    17-52  
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    29-21 (3)  
    29-27  
    29-37  
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    29-57  
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    29-124 (3)  
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    29-137  
    29-139  
    29-216 (3)  
    29-307  
    50-456 (5)  
    50-732 (3)  
    50-747 (3)  
    50-945

ARNG: State AG (3).

USAR: None.

For explanation of abbreviations used, see AR 320-50.

